

## Configuring Class Usage Profiles

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To collect class usage statistics, perform the tasks described in these sections:

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### Configuring a Class Usage Profile

You can configure the class usage profile to collect statistics for particular source and destination classes.

To configure the class usage profile to filter by source classes, include the `source-classes` statement at the `[edit accounting-options class-usage-profile profile-name]` hierarchy level:

```
[edit accounting-options class-usage-profile profile-name]  
source-classes {  
    source-class-name;  
}
```

To configure the class usage profile to filter by destination classes, include the `destination-classes` statement at the `[edit accounting-options class-usage-profile profile-name]` hierarchy level:

```
[edit accounting-options class-usage-profile profile-name]  
destination-classes {  
    destination-class-name;  
}
```

### Configuring the File Information

Each accounting profile logs its statistics to a file in the `/var/log` directory.

To specify which file to use, include the `file` statement at the `[edit accounting-options class-usage-profile profile-name]` hierarchy level:

```
[edit accounting-options class-usage-profile profile-name]  
file filename;
```

You must specify a filename for the source class usage profile that has already been configured at the `[edit accounting-options]` hierarchy level. You can also specify a filename for the destination class usage profile configured at the `[edit accounting-options]` hierarchy level.

## Configuring the Interval

Each interface with a class usage profile enabled has statistics collected once per interval specified for the accounting profile. Statistics collection time is scheduled evenly over the configured interval. To configure the interval, include the `interval` statement at the [edit accounting-options class-usage-profile *profile-name*] hierarchy level:

```
[edit accounting-options class-usage-profile profile-name]  
interval;
```

## Creating a Class Usage Profile to Collect Source Class Usage Statistics

To create a class usage profile to collect source class usage statistics:

```
[edit]  
accounting-options {  
  class-usage-profile scu-profile1;  
  file usage-stats;  
  interval 15;  
  source-classes {  
    gold;  
    silver;  
    bronze;  
  }  
}
```

The class usage profile, `scu-profile1`, writes data to the file `usage_stats`. The file might look like the following:

```
#FILE CREATED 976825278 2000-12-14-20:21:18  
#profile-layout, scu_profile,epoch-timestamp,interface-name,source-class,  
packet-count,byte-count  
scu_profile,980313078,xe-1/0/0.0,gold,82,6888  
scu_profile,980313078,xe-1/0/0.0,silver,164,13776  
scu_profile,980313078,xe-1/0/0.0,bronze,0,0  
scu_profile,980313678,xe-1/0/0.0,gold,82,6888  
scu_profile,980313678,xe-1/0/0.0,silver,246,20664  
scu_profile,980313678,xe-1/0/0.0,bronze,0,0
```

## Creating a Class Usage Profile to Collect Destination Class Usage Statistics

To create a class usage profile to collect destination class usage statistics:

```
[edit]  
accounting-options {  
  class-usage-profile dcu-profile1;  
  file usage-stats  
  interval 15;  
  destination-classes {  
    gold;  
    silver;  
    bronze;  
  }  
}
```

The class usage profile, `dcu-profile1`, writes data to the file `usage-stats`. The file might look like the following:

```
#FILE CREATED 976825278 2000-12-14-20:21:18
#profile-layout, dcu_profile,epoch-timestamp,interface-name,destination-class,
packet-count,byte-count
dcu_profile,980313078,xe-1/0/0.0,gold,82,6888
dcu_profile,980313078,xe-1/0/0.0,silver,164,13776
dcu_profile,980313078,xe-1/0/0.0,bronze,0,0
dcu_profile,980313678,xe-1/0/0.0,gold,82,6888
dcu_profile,980313678,xe-1/0/0.0,silver,246,20664
dcu_profile,980313678,xe-1/0/0.0,bronze,0,0
...
#FILE CLOSED 976826178 2000-12-14-20:36:18
```

- Related Topics**
- Understanding Source Class Usage and Destination Class Usage Options
  - Configuring SCU or DCU
  - Configuring SCU on a Virtual Loopback Tunnel Interface
  - Configuring the Routing Engine Profile

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Published: 2010-04-27